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SPIVAK TO PLAY AT ALL TECH

Inst. Comm. Levies Tax On Activities

Non-Partisan Group Reviews Constitution Of Budget Comm.

The Institute Committee opened its final meeting of the semester with the prospect of solving the question of how to write a constitution for the Budget Committee. During the course of the meeting, a motion placing a tax on activities was passed.

It was decided to refer the Budget Committee problem to a committee of five impartial members. It was agreed that the chairman was to choose them, and the following accepted to serve: Robert Brieber '52, James Jensen '50, Jerry Fisch '50, Carl Mellon '50, Walter Casey '51.

Activity Tax Levied

Having solved this question, discussion was begun on a move to levy an Activity Tax, the income of which is to be used to finance the Activities Ball. The tax is as follows: \$20 for a class A activity; \$7 for a class B activity; \$2 per man for class officers; \$2 per man for members of subcommittees who are seniors and/or officers. The motion was carried.

A move was passed to the effect that the Institute Committee sponsor the World Student Service Fund Drive and that N.S.A. as the appropriate subcommittee, handle the drive for the Institute Committee.

Charles Richards was approved as the Managing Editor of *Technique*.

The next motion, which was (Continued on Page 4)

"Flight Test" In Design Stage Possible With New Invention

A new machine designed to check flight characteristics and control equipment of an aircraft prior to its construction was announced today by President Killian in an address to a Technology alumni group in Los Angeles.

On this elaborate and sensitive calculator, known as the "flight simulator," Technology engineers will be able to set up an "electrical model" of any aircraft which is in an advanced stage of design and then apply an actual autopilot to fly this non-existent, theoretical craft.

Test In Design Stage

The autopilot, which may be the "muscle" of either a guiding mechanism for a guided missile or an automatic pilot for a more conventional airplane, then has exactly the same problem that it would have in the actual flight of the missile or airplane, were the prototype built. Thus the simulator is able to "flight test" an aircraft in the design stage.

A combination of intricate electronic and mechanical equipment, the flight simulator represents the results of a cooperative project involving more than fifty engineers and nearly three years' work. It was built under the auspices of the U.S. Navy Bureau of Ordnance in the Dynamic Analysis and Control Laboratory here at the Institute, of which Dr. Albert C. Hall, associate professor of electrical engineering, is director.

Saves Time and Money

Because it enables engineers to study some of the flight character-

istics of any given design before construction is begun, the simulator can save much of the cost and time of flight testing and should help in improving aircraft design. It requires only flight characteristics obtained from working plans and carefully measured data from wind tunnel tests of a model of the proposed craft.

If, for instance, aircraft performance on the flight simulator is not satisfactory, the wing and tail designs of the "electrical model" may be changed by simple adjustments of the simulator controls until the desired behavior is obtained. Suitable changes can then be incorporated in the plans before the actual plane is built.

"The fundamental purpose of (Continued on Page 4)

Noted Historian Visits Institute

History Never Stilled, Says Visiting Professor

Dr. S. Giedion, historian and one of the leading figures in the promotion of modern architecture and art, has been appointed Visiting Professor in the Department of English and History at the Institute for the term starting in February. In announcing the appointment, Professor Howard R. Bartlett, head of the department, said that while at Technology, Dr. Giedion will conduct a seminar, "Civic Centers and Social Life," and give a series of five public lectures on "The Role of Art in Contemporary Life."

Born in Switzerland in 1894, Giedion educated there and in Germany and Italy. He was trained first as an engineer but later began the study of the history of art. Dr. Giedion's interest in contemporary art and architecture and his personal contact with leading artists shaped his historical methods. His fundamental principles in dealing with historical phenomena is: "History is never stilled. It is ever in movement like the generation observing it."

General Secretary in 1928 When in 1928 Les Congres Internationaux d'Architecture Moderne was founded, Dr. Giedion was appointed its general secretary. Such publications of the C.I.A.M. as *Dwellings for the Lower Income Classes* (1930) and *Can Our Cities Survive?* (1943) have been issued under his supervision.

As a counselor of the Kunsthau at Zurich, it was possible for him to arrange in the early 1930's the first over-all shows of such artists as Picasso, Juan Gris, Fernand Geger, and Hans Arp.

In 1938, Dr. Giedion was the Charles Eliot Norton professor at Harvard, and from 1942 to 1945, he was a visiting professor at Yale. Since 1946 he has been at the Federal Institute of Technology at Zurich.

MESSIAH RECORDS

Anyone interested in obtaining records of the M.I.T. Glee Club performance of the "Messiah" should contact the music office in 14-N-236 or the music library in Walker Memorial.

Dorm Comm, 5:15 Club, Interfraternity Council, Sponsor Extravaganza

In an effort to bring the entire student body together in one large activity, the 5:15 Club, Interfraternity Council, and the Dormitory Committee laid definite plans this week for the All-Tech Dance. Nationally famous Charlie Spivak, billed as "the man who plays the sweetest trumpet in the world," has been selected by the dance committee to supply the music for the occasion.

Spivak's orchestra, which is currently engaged in Cuba and which is flying here for the dance, features baritone vocalist Tommy Lynn and drumming sensation Bobby Rickey. Only eight years old, the orchestra has rocketed to top-flight stature so fast that it is recognized as among the kings of the entertainment world.

Date Correction

Originally planned for February 18, the dance date has been changed to February 25 so as not to conflict with the Wellesley College "Winter Carousel." Realizing that this conflict would hamper the potential success of the dance, the change in date to February 25 was put into effect. Dates and price for the sale of tickets has not been announced by the committee, but the price is expected to run \$3.60 per couple or under. Albert Cohen '51, member of the committee, stated that the price was set in this range in an effort to establish the minimum price possible to keep within the budget of the dance committee and at the same time bring this extravaganza to the student body without high prices.

To Be Informal

Although a dance of this nature ordinarily warrants formal attire, the committee has decided unanimously to declare the dance informal for the sake of ease and comfort. It was also pointed out by the committee that because of this, the entire cost of the dance from the student viewpoint will be minimized to a large extent.

The All-Tech Dance marks the first united effort of all three living groups in one activity. This combined effort has been "on the fire" for three years but last November, when three representatives from each living group met, was the first time that any formal action was taken on the subject. At that time Allen C. Odian '51, Arthur Orenberg '51, and Albert Cohen '51, representing the commuters; Harry M. Johnson '51, Seward H. Mott '51, and Fred H. Weitz '51, representing the I.F.C.; and Donald C. Bishop '50, Robert B. Wolf '50, and Donald S. Schlatter '51, representing the Dormitories, discussed definite plans and finally realized the potential.

(Continued on Page 3)

N. Y. Author Kohn To Lecture Here

Professor Hans Kohn of the City College of New York will lecture on "The Revolution of 1848" on Tuesday, January 17, at 4:00 p.m. in Huntington Hall. Professor Kohn is an outstanding authority on the subject of nationalism. He is the author of *The Idea of Nationalism, Revolution and Dictatorships*, and *The Twentieth Century*.

This lecture is being given as part of E-21, The U. S. in World History. All other students and members of the staff who are interested are invited to attend.

DOWNHILL AT FRANCONIA NOTCH

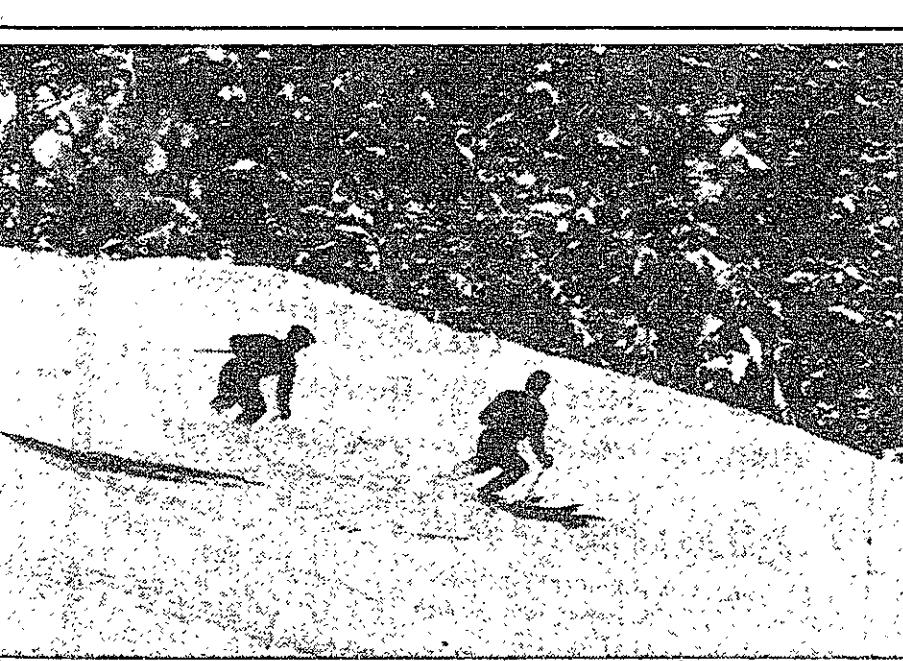


Photo by Peabody

more (North Conway) and Pico Peak. Bromley has four T-bar tows with the highest capacity in New England so large crowds can be accommodated with little or no lift-line waiting. In this section, there are quite a few lodges, good tows, ski schools, and a board package plan in conjunction with Snow Valley, all of which offer a great deal of economy. Bromley is notable for

crowded area in that section during weekends. Cranmore is probably fine for a week's stay and not as expensive as it might appear. Hannes Schneider went there because it was a good mountain, and it is the oldest of the New England major developments.

Pico in Woods

Pico is somewhat stuck out in the (Continued on Page 2)

The Tech

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ANOTHER CANDLE IN THE CAKE

Several days ago we passed our seventieth birthday, celebrated the event appropriately at our annual banquet, and inaugurated Volume LXX of *The Tech*. The anniversary holds more than sentimental significance for us, for with it the management of the newspaper changed hands. A new managing board was installed and many staff promotions were made. With a final salute to the Managing Board of Volume LXIX, we begin the new year and a new volume.

GENERAL STATEMENT

It would be well here to outline a few of our policies, editorial and otherwise. The primary purpose of this newspaper is that of communication. In order to present the news from an unbiased viewpoint, we shall continue to make every effort to separate opinion from the factual material of our news stories. Moreover, we do not believe that it is our job to act as publicity medium for the various activity groups throughout the school. It is for us to decide what constitutes news, and how heavily it should be weighed. We mention this in the hope that the numerous publicity chairmen who think otherwise will take note.

ALL-TECH DANCE

Through some process of spontaneous combustion, plans for the All-Tech Dance have emerged. The project is an ambitious one, with a noble purpose. It is probably the first significant social affair to be held here directly under the auspices of a three-way living group combine. Our far-flung living groups are destined to remain apart, but social events such as this will do much to make the entire undergraduate body a more coherent entity. We are especially glad to see that this isn't a half-hearted effort: the committee has taken the plunge in procuring a name band, but this move we believe assures a successful student reaction. We wish them luck.

MONEY TROUBLE

The Institute Committee reached a dilemma last Wednesday. Everyone agreed that the forthcoming Activities Ball should be a big enough and costly enough affair to justly reward hard-working activity men. But no one knew where to get the money to pay for it. Attendance is to be by invitation only, each activity being allotted certain number of bids—after it has contributed its allotted share of the costs. The cost to each organization was determined on the assumption that all activities will participate. It was mentioned that even the relatively small expense is too much for the more financially strained groups, and that some might choose to forego their invitations rather than be taxed to pay for the affair. This loss of revenue would result in a deficit. The idea of substantially cutting the budget was considered, and rejected. The expenditures proposed for this year are greater than the amount spent on the dance last year. And last year the thing wound up in the red: not all the activities decided to participate.

Unless the Activities Ball receives backing from every organization represented on Instcomm the dance will incur a deficit. We believe that a budget drawn up under the assumption that one hundred per cent cooperation will be received is overly optimistic.

However, we hope that the full value of the Activities Ball will be recognized and complete support will be given to the committee.

AFTER HOURS

DANCES

Courtesy "The Tom Cat Hour," WMIT
FRIDAY, JANUARY 13
Mass. General Hospital—Regular dance held at Walcott House—Admission 50c.—Refreshments and game room downstairs—Subway to Charles Station. These semi-weekly dances considered about the best of hospital dances.

Franklin Square House—Informal dance at the hotel-dorm for career and working girls at 8 p.m. Admission free but by ticket only. See Mary Burke—Walker Mem. Comm. office. Women can sign out until 2 a.m.—Subway to Washington St., Forest Hill Line to Northampton.

Boston YWCA—Mouthly dance of Y's College and Career members in Hotel Pioneer, 140 Clarendon St.—Admission free—Stuart and Clarendon Sts.—Copley St.

Wheaton College—Acquaintance dance for Junior and Senior girls—Admission free—Route 1 south to route 140, then to Norton, Mass.—35 miles.

SATURDAY, JANUARY 14
Carleton Club—Usual set-up. Hotel Commander, Harvard Square. Admission 60c.

THE THEATRE

Brigadoon—Plymouth—A really top musical featuring such songs as "Highland Fling" here after a long and successful Broadway run. Excellent music and dancing in a Scotch setting that "ye canna miss."

Dance Me A Song—Shubert—third rate revue.

The Happy Time—Plymouth—Warm-hearted family comedy.

Design for a Stained Glass Window—Wilbur—Religious drama in Elizabethan England.

Opera—Albert Herring—Opera House—Goldovsky's treatment of Britten Opera.

BETTER MOVIES

Devil in the Flesh—Beacon Hill—with little competition the finest film in town.

Inspector General—Metropolitan—In this classification by the skin of its teeth is Danny Kaye's cavorting through Hollywood's version of the Gogol play.

SPORTS

FRIDAY, JANUARY 13
Pro Basketball at the Garden—Chicago—Stags vs. Boston Celtics.

SATURDAY, JANUARY 14
College Basketball at the Garden—Doubleheader with Dartmouth vs. Harvard and DePaul vs. Boston College.

SUNDAY, JANUARY 15
Professional Hockey—The Chicago Black Hawks take on the Boston Bruins at the Garden.

TUESDAY, JANUARY 17
Professional Basketball—Minneapolis "Lakers" vs. The Boston Celtics.

Skiing

(Continued from Page 1)

woods east of Rutland, Vermont; we don't know much about the place, but it is run by good skiers and good skiers go there.

These last three areas mentioned do not have the altitude to have good snow as consistently as our next three, but they are next in line, with plenty of variety in trails. Bromley and Cranmore have the big-development atmosphere, Cranmore having developed a patina and savoir-faire through its long association with skiing.

There are four high country areas that, in normal winters, have consistently deeper snow and better surface conditions than any of the others. Three of them are in New England and one is in Quebec. The closest is Cannon Mountain, which forms one side of the famous Franconia Notch in northern New Hampshire. This area is not a good one for beginners and is only moderately good for intermediates. It has only trail skiing, with the exception of a short practice rope, and these trails are intermediate to expert trails, considered by many to be the finest in New England. The whole area is, in my opinion, the best administered of them all and has very reasonable tow and off-tow charges. The tow is an aerial tramway carrying about twenty passengers and its capacity is such

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that waiting is only serious on important weekends. The local lodges are not very close, and this lack of compactness, together with the lack of varied terrain makes this otherwise excellent area not particularly suitable for a group of varying ability, or for a vacation-long stay.

Skiing in Canada

The Laurentian area of Quebec is a wonderful strip of rope tow slopes and T-bars through a series of small towns culminating in the high-country chair lift on Mont Tremblant. Though the most distant, it has the finest snow conditions, every kind of slope or trail, fine touring trails, and low expenses, travel excepted.

Mad River Glen in Fayston, Vt., is thirty or so miles south of Stowe and snow conditions are similar. Having a chair lift, with largely intermediate trails, it is not particularly suitable for the real beginner, and has little variety. It is suitable for a weekend or for a side trip from Stowe for the intermediate or expert.

Favorite Ski Area

The favorite college vacation-time ski area is undoubtedly the Stowe-Mt. Mansfield complex of chair lift, T-bar, rope tows, open slopes, and trails. This area offers the longest lift with the greatest vertical descent, plus an adjacent T-bar lift 4,000 ft. long that alone is the equal of most of the other areas. It has every grade of trail from touring to expert, served by both lifts. We think it has the greatest variety of any New England area, gives the beginner the best facilities for improvement at every level, and has, at vacation time, the most collegiate crowd and atmosphere.

Boston Slopes

For those looking for a one-day ski journey, there are quite a few good tows in the immediate vicinity of Boston, when snow is right. Try Groton Country Club, Locke's Hill in Amesbury, the new Blue Hill development, or a new rope tow in Stowe, some 18 miles out. If you have just an afternoon, the Commonwealth Country Club at the end of the Boston College-Commonwealth car line provides a rope and lots of company. Blue Hill and many of the others are all lighted for night skiing.

Boston Baedeker

By RICHARD J. POWELL

For a concert which promised so much in its selection of works, last Tuesday's recital at Huntington Hall was disappointing when it came to the performance itself. The Berkshire Quartet, presenting the Division of Humanities' third concert of the season, lacked a primary prerequisite for good ensemble playing—sound technical ability on the part of each member. Although there was a good bit of squeaking and scraping from the violins, the quartet's playing was generally adequate, but only that.

Haydn's Quartet in C, Opus 54, No. 2, opened the program. Here the Quartet sounded better when all four were playing than in the solo passages. Both tone and spirit were a little dull for music such as this. The Quartet No. 1, Opus 7, of Bela Bartok followed. When compared with the Quartet No. 4 performed at the last concert, Bartok's First Quartet is tame; its lyric melancholy tendencies mark the composer's less-venturesome early style. The ensemble played all the notes, sometimes with the needed brilliance and feeling. In the concluding Brahms C Minor Quartet, the Berkshire Quartet displayed better musicianship than it did earlier in the evening. David Dawson, viola, distinguished himself in all the works as the most competent of the Quartet.

Though the concert did not come up to the quality shown in the previous ones of Schneider and Kirkpatrick and the Hungarian Quartet, it offered, as did the others, all interested Technology students the wonderful opportunity of hearing chamber music as it should be heard—in live performance. We are indeed grateful to Mrs. Elizabeth Sprague Coolidge.

Concerts This Weekend

Fabien Sevitzky and the Indianapolis Symphony Orchestra will give a concert at Symphony Hall this Saturday evening while the Boston Symphony is on tour.

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Activity

Briefs

Pershing Rifles

Company C-8 Pershing Rifles will hold a formal initiation for candidates today. Those to be initiated into the Society include Richard T. Cleslukiewicz '53; Stuart M. Kleinfeier '53; Stanley Lenard '53; Henry J. Myers '53; Sylvan Limon '53; Thomas C. Nelson '53; Eugene M. Romer '53; Ralph H. Sievers '53; Harvey L. Steinberg '53; Harold Taylor '52; Richard C. Wingerson '52; Frank T. Wheby '52; Harris J. Bixler '53, and Robert G. Wolson '52.

The ceremony will be followed by an informal bull session and stag party.

Model Aircrafters

On Sunday, members of the Tech Model Aircrafters conducted a suc-

cessful flying scale model airplane contest in Rockwell Cage. The prize was a perpetual trophy which the club has for this specific event.

Professors Otto Koppen and Frank Bentley judged the event. The first four contestants were Walt Mooney, Lloyd Licher, Richard Baxter, and Eugene Larrabee. Mooney made 57.6 seconds with his Piper Super Cruiser.

Flight Simulator

(Continued from Page 1) this machine," Dr. Hall explains, "is to permit the development of high-speed aircraft with a reduction in the time, expense, and number of conventional flight tests."

Data from Wind Tunnel

A problem is worked out on the apparatus by setting electronic computer dials that represent the various important characteristics of the aircraft to be studied—weight, velocity, altitude, wing span and many others. Before the simulator can be used, many of these characteristics must be obtained from wind

tunnel tests of small models of the proposed aircraft.

Then the question is "fed" into the simulator by applying appropriate electrical signals through a control board. The answer is returned on a chart on a recording apparatus in a matter of seconds.

This computer, one of several types of such high-speed mathematical machines at Technology, adds, multiplies, integrates and subtracts at almost unbelievable speed. For example, a "simple" computation which would take an able operator 100 hours to carry out by hand is handled by the computer in 10 seconds and much more elaborate problems can also be handled in a matter of only minutes.



Inst. Comm.

(Continued from Page 1) moved, provided for the selection of three members who are to comprise a special committee to work with the Harvard Cooperative Society. They will compare the prices and quality of goods in the Coop with the neighborhood stores.

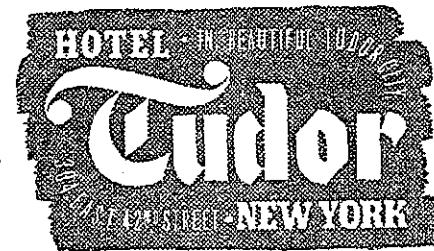
The following were chosen as delegates for the U.N. Conference sponsored by Connecticut College, to discuss the U.N. trusteeship coun-

cil: Jerry Fisch '50, Mark Baxter '50, John Kern '50, Jack Jacoby '50, Claude Pasquier '50, Paul Morier-peterson '50, and Frank Parisi '50.



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